IATAN SITE EMISSIONS EXPECTATIONS FOR COMPREHENSIVE PLAN								
UNIT	SO2 Lbs/mmbtu	NOx Lbs/mmbtu	Hg Lbs/Tbtu	PM 2.5 Lbs/mmbtu	SO2 Tons	NOx Tons	Hg Lbs	PM 2.5 Tons
Iatan-1 Current (2004)	0.6978	0.3520	5.6825	0.0032	19,219	9,694	313	88.35
Iatan-1 Permit	0.10	0.10	na	na	3,826	3,331	na	na
Iatan-1 Expected (Post Retrofit)	0.10	0.10	1.7048	0.00064	2,754	2,754	94	17.67
Iatan-2 Expected	0.09	0.08	1.7048	0.00064	2,439	2,168	92	17.39
Total Expected After Retrofit and Iatan-2					5,193	4,922	186	35.06
% Reduction from 2004					73%	49%	40%	60%

Assumptions
Coal quality remains the same as in 2004.
Reporting technology & methods remain the same.
Emission rates for SO2 and NOx set at Iatan Permit Limits on both units for after completion of the Comprehensive Plan.
Co-benefits reduce Iatan-1 Hg rate by 70% from 2004 reported rates. Iatan-2 Hg rate assumed to equal Iatan-1 post retrofit rate.
Current PM 2.5 emissions assume 95% removal with ESP's. Future PM 2.5 emissions assume 99% removal with Baghouses. Iatan-2 PM 2.5 emission rate set equal to Iatan-1.
Iatan-1 fuel usage set at 2004 levels (55.08 million mmbtu)
Iatan-2 fuel usage based on an average net heat rate of 9,100 btu/kWh and an 85% capacity factor for an 800 MW net unit (54.21 million mmbtu per year)

KCPL Exhibit No. 58
Case No(s). EO-2005-0329
Date 7-12-2005 Rptr JL

PVRR Impact of CO2 Limitation Scenarios

Comprehensive Plan

CO2 Limit Scenario	Natural Gas Price Forecast	Change in PVRR ($ x Millions)	CO2 Limits (Tons) 2012	CO2 Limits (Tons) 2017	CO2 Allowance Price ($/Ton) 2012	CO2 Allowance Price ($/Ton) 2017	CO2 Allowance Price ($/Ton) 2022
No CO2 Limit	Base	0.000	N/A	N/A	N/A	N/A	N/A
McCain-Lieberman	Base	495.049	15,228,000	12,388,000	22.82	25.82	29.22
	High	393.224					
Kyoto	High	677.223	10,604,837	10,604,837	22.82	25.82	29.22

Assumptions:

Base Case is Comprehensive Plan - 500 MW Iatan 2 in 2010, 100 MW Wind in 2006, Environmental Upgrades to existing units.

WIND Production Tax Credit Impacts

Scenario Description	Change in PVRR from Base Case, NO PTC ($ x Millions) 20 Yr	Change in PVRR from Base Case, NO PTC ($ x Millions) 10 Yrs	Avg Rate (Cents / kWhr) 20 Yrs	Avg Rate (Cents / kWhr) Credit Years (10-Years of Credits)
Base Case with NO PTC	na	na	na	na
Base Case with PTC	($59.259)	($51.233)	($0.029)	($0.058)
Low Wind Capacity Factor Case with PTC	($51.851)	($44.829)	($0.025)	($0.050)
High Wind Capacity Factor Case with PTC	($66.666)	($57.637)	$0.032	($0.065)

ASSUMPTIONS & NOTES

PTC assumed to be 1.9 cents / kWhr.

Base Case Capacity Factor for Wind is 38.4%. High and low cases computed as sensitivities around this level. High Capacity Factor = 43.2%. Low Capacity Factor = 33.6%.